

CROSBIE FOUNDRY CO., INC.

"Castings with a future"

NICKEL, BRASS, BRONZE and ALUMINUM

1600 MISHAWAKA ST.

ELKHART, INDIANA 46514-1898

PHONE (219) 262-1502

RECEIVED
MAY 25 1989

56636

TECHNICAL SUPPORT
SECTION

May 23, 1989

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MAY 25 1989

SUPERFUND PROGRAM
MANAGEMENT BRANCH

Ms. Susan Swales, 5HSM-12
Superfund Program Management Branch
U.S.EPA, 5HS-11
230 S. Dearborn Street
Chicago, IL 60604

Dear Ms. Swales:

An analysis has been prepared which should provide an idea of the actual amount of foundry sand waste disposed of at the Himco site from 1970 - 1977 by the Crosbie Foundry.

By comparing sales from 1982 - 1988 to the volume of sand purchased during the same period, a percentage resulted of approximately .02. Therefore, 2% of sales should approximate the volume of sand purchased. This percentage may, however, be somewhat inflated. During the period 1982 - 1986, an olivine sand was used rather than the naturally bonded green sand that was used during 1970 - 1977. Olivine sand generates more waste since it tenaciously clings to casting surfaces. Olivine sand also is a more dense material, therefore, it weighs more per volume than silica sand. The total volume of material purchased included resin coated silica sand for cores, southern bentonite clay and western bentonite clay.

The analysis is as follows:

| | | |
|---|---|----------------------------|
| Sales - 1982-1988 | | \$10,462,000.00 |
| Sand purchased (weight) | | 230,000 lbs. |
| % Sand purchased/sales | = | .02 |
| Sales - 1970-1977 | | \$5,800,000.00 |
| \$5,800,000.00 x .02 | = | 116,000 lbs. |
| 1 drum of dry sand | = | 500 lbs. |
| 116,000 lbs ÷ 500 lbs/drum | = | 232 drums of waste sand |
| 1 drum (55 gallon) | = | 7.25 cubic feet of sand |
| 232 drums x 7.25 cubic feet of sand | = | 1682 cubic feet sand |
| 1682 cubic feet sand ÷ 27 cubic feet/yd | = | 62 cubic yards |

It is unlikely that more than 62 cubic yards of molding sand and core sand were purchased during the years 1970-1977. Most certainly a sizeable amount of the material purchased was still in production after the landfill was closed in 1977. A realistic estimate of the waste sand volume would be in the range of 30 cubic yards.

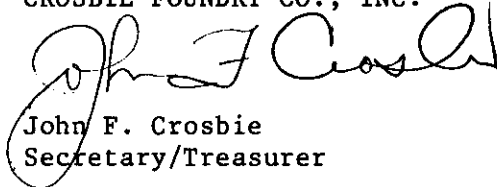
As I explained in the letter of May 9, 1989, only a small percentage of the material contributed by the Crosbie Foundry consisted of foundry wastes.

Hopefully, this analysis will help show the amount of foundry waste contributed by our company.

Should any additional information be required in the future, we will be pleased to comply.

Sincerely,

CROSBIE FOUNDRY CO., INC.



John F. Crosbie
Secretary/Treasurer

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CROSBIE FOUNDRY CO., INC.

1600 MISHAWAKA STREET
ELKHART, IN 46514-1898

Fold at line over top of envelope to the right
of the return address.

CERTIFIED

P-594 036 812

MAIL

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RETURN RECEIPT
REQUESTED

Ms. Susan Swales, 5HSM-12
Superfund Program Management Branch
U.S.EPA, 5HS-11
230 S. Dearborn St.
Chicago, IL 60604

